

Al Montague

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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SUBJECT: Sampling and Analysis Artesian Water Company
Llangollen Wellfield and Amoco Chemical Company

DATE: May 17, 1977

FROM: Victor Guide (3SA21) *Victor Guide*
Sanitary Engineer, Annapolis Field Office

TO: Larry S. Miller (3SA60)
Chief, Water Quality Monitoring Office

At the request of the Water Supply Branch (see attachments) water samples will be collected at the following locations for VOA:

Artesian Water Company Llangollen Wellfield

- (1) Finished Water
- (2) Artesian Water Company Well No. 2
- (3) Artesian Water Company Well No. 7
- (4) Artesian Water Company Well No. G-3

Amoco Chemical Company

- (5) Well No. PH-1
- (6) Well No. PH-3

At these six (6) stations water samples for volatile organics analysis (VOA) will be collected according to the following procedures.

1. Samples will be collected in triplicate at each station using muffled (400°C - 8 hrs) 50 ml serum bottles with zero-dead volume and Teflon faced septum. Sample bottles will be washed out (no organic solvents will be used), placed in muffle furnace for 8 hrs. and placed in a secure location absent from organic chemicals prior to sampling. *Check with R. Wall for sample bottle procedure*
2. At the time of collection bottles will be labeled (date/time of sample collection, location, name of sampler, witness) and filled with water to the very top of the bottle (zero-dead volume). The Teflon faced crimp top will be placed on the bottle and crimped with the crimping device. Samples will be then placed in a cool location while awaiting delivery to the appropriate laboratory for VOA.

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The following VOA will be done for all samples:

- (1) Acetone
- (2) Benzene
- (3) Chlorobenzene
- (4) Chloroform
- (5) Dichloroethane
- (6) Hexane-1
- (7) Methyl Pentane
- (8) Methylene Chloride
- (9) n-Hexane
- (10) Toluene

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It should be noted that no general organic scan of these samples will be undertaken. The only organic compounds that will be analyzed for are those ten (10) previously listed.

The Annapolis Field Office will provide manpower for sample collection. We will undertake the responsibility for collection of samples at the previously named sampling locations for subsequent, specific VOA at the AFO laboratory and the EMSL laboratory in Cincinnati, Ohio. Samples will be transported to the Annapolis Field Office via government vehicle immediately after sample collection. Samples to EMSL will be sent via air freight to the attention of Dr. William Budde.

Special Assistance to Agencies Outside EPA

We expect R&D To coordinate all activities involving this project and Dr. Chian of the University of Illinois. If needed, we can supply field assistance as previously described. We would prefer, however, that Dr. Chian provide his own sampling bottles to avoid confusion and error regarding the final outcome.

AFO Manpower Requirements

1. Laboratory prep time to date - 1 man day
Laboratory prep time to finish - 1/2 man day
2. Field time - 2 man days
3. Laboratory VOA to final report - 5 man days

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